

## CLAIMS

What is claimed is:

1. A locking mechanism adapted to lock a printed circuit assembly in place, comprising:
  - a plurality of sliding members adapted to slide along a surface of the printed circuit assembly;
  - a plurality of rotating members, each rotating member adapted to engage a sliding member; and
  - an actuator rotatable to lock and unlock the sliding members, and when rotated to lock the sliding members, the actuator is adapted to prevent the sliding members from sliding along the surface of the printed circuit assembly.
2. The locking mechanism of claim 1 wherein said actuator includes a plurality of locking surfaces, wherein when the actuator is rotated to lock the sliding members, each locking surface contacts a corresponding surface of a sliding member.
3. The locking mechanism of claim 3 wherein said sliding members are adapted to slide toward the actuator when the actuator is rotated to unlock the sliding members.
4. The locking mechanism of claim 1 wherein, when the sliding members are slid toward the actuator to permit the rotating members to be rotated, said rotating members cause the printed circuit assembly to be ejected from an electronic system when said rotating members are rotated.
5. A printed circuit assembly (PCA), comprising:
  - a circuit board having a top edge; and
  - a self-locking mechanism located on said top edge and locking said PCA in an electronic system and permitting said PCA to be removed

from said electronic system, the self-locking mechanism comprising:

- a plurality of sliding members;
- a plurality of rotating members, each rotating member adapted to engage a sliding member; and
- an actuator rotatable to lock and unlock the sliding members, and when rotated to lock the sliding members, the actuator prevents the sliding members from sliding along the top edge.

6. The PCA of claim 5 wherein said actuator includes a plurality of locking surfaces, each locking surface adapted to contact a corresponding surface of a sliding member thereby preventing said sliding members from being slid along the top edge.

7. The PCA of claim 9 wherein said rotating lock members are locked in place until said actuator is turned and said sliding members are slid toward said actuator along the top edge.

8. A printed circuit assembly (PCA), comprising:  
a circuit board having a top edge; and  
a self-locking mechanism located on said top edge and locking said PCA in an electronic system and permitting said PCA to be removed from said electronic system, the self-locking mechanism comprising:  
a plurality of sliding members adapted to slide along a top edge of the circuit board;  
a plurality of rotating members, each rotating member adapted to engage a sliding member; and  
means for locking and unlocking the sliding members.

9. The PCA of claim 8 wherein said means for locking and unlocking the sliding members comprises means for engaging a surface of each of the sliding members.